



#19

SEQUENCE LISTING

<110> Johnson, Eric S.

Pham, Thuy D.

<120> Viral Detection System

<130> D6161

<140> US 09/159,325

<141> 1998-09-23

<150> US 60/061,287

<151> 1997-10-07

<160> 26

<210> 1

<211> 205

<212> DNA

<213> Avian leukosis/sarcoma virus of the family *Retroviridae*

<220>

<223> Subgroup A of the avian leukosis/sarcoma virus.

<400> 1

ctacagctgt taggttccca gtctctccct aacattacta atattactca gatctccggt 60
gtaaccgggg gatgcgtagg cttcaggcca aaaggggttc cttgggtatct ggggttggtct 120
agacaggaag ccacgcggtt tctccttaga cgccctctt tctctaactc ctcgaaaccg 180
tttacagtgg tgacagcgga taggc 205

<210> 2

<211> 229

<212> DNA

<213> Avian leukosis/sarcoma virus of the family *Retroviridae*

<220>

<223> Subgroup B of the avian leukosis/sarcoma virus.

<400> 2

ctacaactgc taggttccca gtctctcccc aatataacta atattactcg gatccccagt 60
gtggctggag gatgcatagg ctttacccca tacgatagtc cggctggtgt ctacggatgg 120
gaccggagag aggttacaca ctccttctg accgaccag ggaacaatcc tttctttgat 180
aaggcctcta actcctcgaa accgtttaca gtagtgacag cggacaggc 229

SEQ 1



<210> 3

<211> 211

<212> DNA

<213> Avian leukosis/sarcoma virus of the family *Retroviridae*

<220>

<223> Subgroup C of the avian leukosis/sarcoma virus.

<400> 3

```
ctgcagctgc taggttccca gtctctccct aacgttacta acattactca ggtctctggc 60
gtggccgggg gatgtgtata ttctgccccca agggccactg gcctgttttt aggttggtct 120
aaacaaggtc tctgcgggtt cctcctccgt caccctttta cctccacctc taactccacg 180
gaaccgttca cgggtggtgac agcgataga c                               211
```

<210> 4

<211> 229

<212> DNA

<213> Avian leukosis/sarcoma virus of the family *Retroviridae*

<220>

<223> Subgroup D of the avian leukosis/sarcoma virus.

<400> 4

```
ctgcagctgt taggttccca gtctctccct aatatcgcta atattactca gatccctggt 60
gtggcaggag gatgcatagg cttcacccca tacggcagtc cggctggtgt ttacgggtgg 120
ggccgggaag aggtgacaca catcctctta accaaccccc ctgataatcc tttctttaac 180
cgtgcttcta actccacgga accgtttacg gtggtgacag cgatagggc          229
```

<210> 5

<211> 228

<212> DNA

<213> Avian leukosis/sarcoma virus of the family *Retroviridae*

<220>

<223> Subgroup E of the avian leukosis/sarcoma virus.

<400> 5

```
ctacagctgc taggttccca gtctctccct aacattacta atattactca gatttctggt 60
gtaaccgggg gatgcgtagg cttcgccccca cactccaatc caagtgggtgt ctacgggtgg 120
ggccggagac aggttacaca caacttcttg atcgccccgt gggtaaatcc tttctttaac 180
agcgcttcta actccacgga accgtttacg tgggtgacag ggatagggc          228
```



<210> 6

<211> 202

<212> DNA

<213> Single Comb White Leghorn chicken

<220>

<223> PCR product Fb2, or 2F, isolated from egg albumin of ALSV-positive stock F chicken

<400> 6

acagctgtta ggttccagct ttttctctcac attattaata ttactcaaatt ttctgggtgta 60
accggaggag gcgtaggctt tagaccagga gggatcccct ggtatatagg atggactaga 120
caggaagcca cacggttcct ccttagacaa tctctctttt ctaattccac ggaaccattt 180
acggtgggtga cagcggatag gc 202

<210> 7

<211> 22

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> Forward primer PA1 specific for the detection of viral subgroup A of avian/leukosis sarcoma virus.

<400> 7

ctacagctgt taggttccca gt 22

<210> 8

<211> 21

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> Reverse primer PA2 specific for the detection of viral subgroup A of avian/leukosis sarcoma virus.

<400> 8

gcctatccgc tgtcaccact g 21

SEQ 3



<210> 9
<211> 202
<212> DNA
<213> Single Comb White Leghorn chicken
<220>
<223> RT-PCR product from egg albumin of stock 2F chicken.
<400> 9

```
acagctgtta ggttcccagt ttttccctca cattataata ttactcaaat ttctgggtgta 60
accggaggag gcgtaggctt tagaccagga gggatccctt ggtatatagg atggactaga 120
caggaagcca cacggttctt ccttagacaa tcttctttt ctaattccac ggaaccattt 180
acggtggtga cagcggatag gc 202
```

<210> 10
<211> 226
<212> DNA
<213> Single Comb White Leghorn chicken
<220>
<223> RT-PCR product from egg albumin of stock 6F chicken.
<400> 10

```
cagctgttag gttcccagtc tctccctaac attactaata ttactcagat ttctgggtgta 60
actgggggat gcgtaggctt caccacacac tccaatccaa gtggtgttta cgggtggggc 120
cggagacagg ttacacacaa cctcttgatc gccccgtggg tcaatccttt ctttaacagc 180
gcttctaact ccacggaacc gtttacggtg gtgacagcgg ataggc 226
```

<210> 11
<211> 225
<212> DNA
<213> Single Comb White Leghorn chicken
<220>
<223> RT-PCR product from egg albumin of stock 7Q chicken.
<400> 11

```
cagctgttag gttcccagtt tctccctaac attattataa ttactcagat ttctgggtgta 60
actgggggat gcgtaggctt caccacacac tccaatccaa gtggtgttta cgggtggggc 120
cggagacagg ttacacacaa cttcttgatc gccccgtggg tcaatccttt ctttaacagc 180
gcttctaact ccacggaacc gtttacggtg gtgacagcgg atagg 225
```



<210> 12

<211> 229

<212> DNA

<213> Single Comb White Leghorn chicken

<220>

<223> RT-PCR product from egg albumin of stock 10Q chicken.

<400> 12

```
ctacagctgt taggttccca gtctctccct aacattacta atattactca gattttctggt 60
gtaaccgggg gatgcgtagg ctctgccccca cactccaatc caagtgggtgt ctacgggtgg 120
ggccggagac aggttacaca caacttcttg atcgccccgt gggccaatcc tttctttaac 180
agcgcttcta actccacgga accgtttacg gtggtgacag cggataggc 229
```

<210> 13

<211> 224

<212> DNA

<213> unknown

<220>

<223> RT-PCR product from egg albumin of commercial chicken from randomly chosen grocery store # 205.

<400> 13

```
gctgttaggt tcccagtctc tccctaacat tactaatatt actcagattt ctggtgtaac 60
cgggggatgc gtaggcttca cccacactc caatccaagt ggtgtttacg ggtggggccg 120
gagacaggtt acacacaact tottgatgc cccgtgggtc aatcctttct ttaacagcgc 180
ttctaactcc acggaaccgt ttacggtggt gacagcggat aggc 224
```

<210> 14

<211> 203

<212> DNA

<213> unknown

<220>

<223> RT-PCR product from egg albumin of commercial chicken from randomly chosen grocery store # 65.

<400> 14

```
tacagctggt aggttcccag tctctcccta acattactaa cataactcaaa tttctggtgt 60
aaccggagga tgcgtaggct ttagaccagg agggatccc tggtatatgg gatggactag 120
acaggaagcc acacgggttc tccttaaaaca atcctccttt tctaattcca cggaaccatt 180
```



tacggtggtg accggggg

203

<210> 15
<211> 21
<212> DNA
<213> artificial sequence
<220>
<221> primer_bind
<222> 5564..5585
<223> Forward primer PU1 specific for the detection of viral subgroup A-E of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.

<400> 15

ctrcarctgy taggytccca g

21

<210> 16
<211> 21
<212> DNA
<213> artificial sequence
<220>
<221> primer_bind
<222> 5772..5791
<223> Reverse primer PU2 specific for the detection of viral subgroup A-E of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.

<400> 16

gycaycactg tcgcctrtec g

21

<210> 17
<211> 20
<212> DNA
<213> artificial sequence
<220>
<221> primer_bind

SEQ 6



<222> 5642..5661

Forward primer PA10 specific for the detection of viral subgroup A of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.

<400> 17

ggcttcaggc caaaaggggt

20

<210> 18

<211> 22

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<222> 5858..5879

<223> Reverse primer PA20 specific for the detection of viral subgroup A of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.

<400> 18

gtgcattgcc acagcggtac tg

22

<210> 19

<211> 20

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<222> 5642..5661

<223> Forward primer PB1 specific for the detection of viral subgroup A of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.

<400> 19

ggctttaccc catacgatag

20

SEQ 7



<210> 20
<211> 21
<212> DNA
<213> artificial sequence
<220>
<221> primer_bind
<222> 5861..5882
<223> Reverse primer PB2 specific for the detection of viral subgroup A of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.
<400> 20
acacatcctg acagatggac c 21

<210> 21
<211> 20
<212> DNA
<213> artificial sequence
<220>
<221> primer_bind
<222> 5642..5661
<223> Forward primer PC1 specific for the detection of viral subgroup C of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.
<400> 21
tatttcgccc caagggccac 20

<210> 22
<211> 22
<212> DNA
<213> artificial sequence
<220>
<221> primer_bind
<222> 5858..5879
<223> Reverse primer PC2 specific for the detection of viral

SEQ 8

subgroup C of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.

<400> 22

ccacgtctcc acagcggtaa gt 22

<210> 23

<211> 20

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<222> 5642..5661

<223> Forward primer PD1 specific for the detection of viral subgroup D of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.

<400> 23

ggcttcaccc catacggcag 20

<210> 24

<211> 21

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<222> 5858..5882

<223> Reverse primer PD2 specific for the detection of viral subgroup D of avian/leukosis sarcoma virus. Position corresponds to the numbering of the RNA genome of the Prague C strain of RSV.

<400> 24

ccatacgtcc tcacagatag a 21

<210> 25

<211> 20

SEQ 9

<212> DNA
 <213> artificial sequence
 <220>
 <221> primer_bind
 <222> 5642..5661
 <223> Forward primer PE1 specific for the detection of viral
 subgroup E of avian/leukosis sarcoma virus. Position
 corresponds to the numbering of the RNA genome of the
 Prague C strain of RSV.
 <400> 25
 ggcttcgccc cacactccaa 20

 <210> 26
 <211> 22
 <212> DNA
 <213> artificial sequence
 <220>
 <221> primer_bind
 <222> 5867..5888
 <223> Reverse primer PE2 specific for the detection of viral
 subgroup E of avian/leukosis sarcoma virus. Position
 corresponds to the numbering of the RNA genome of the
 Prague C strain of RSV.
 <400> 26
 gcacatctcc acaggtgtaa at 22